

KANDAO QooCam Studio User Guide

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QooCam Studio support for native media of QooCam QooCam 8K and QooCam 3 to stitch and edit.

QooCam Studio Workflow

The overall process for putting together a media with QooCam Studio is described below. You don't have to do every step, and you might do others that aren't listed and the workflow is not necessarily linear.

Step1 Import your media into Qoo Cam Studio.

To use QooCam Studio, you need to transfer your videos and images from QooCam, QooCam 8K and QooCam 3 devices to your computer's local folder or external or storage device.

Step2 Select the appropriate stitching parameters for your media.

QooCam Studio will select some stitching parameters for your media by default. These parameters are suitable for many scenarios, but there are still special cases that need to be adjusted. The adjusted parameters will be applied in real time, and you can see the effect in the preview.

Step 3 Add effect

During this process, you can choose Panorama mode and Reframe mode. Support different editing functions in different modes. Reframe mode allows you to add keyframe.

Step 4 Render your media.

You can set the resolution, bitrate, export address, and so on of the exported media.

QooCam Studio system requirements

Windows

	Minimum specifications	Recommended specifications	
Processor	Intel® 6thGen or newer CPU – or AMD equivalent	Intel® 7thGen or newer CPU – or AMD equivalent	
Operating system	Microsoft Windows 10 (64-bit) version V20H2 or later	Microsoft Windows 10 (64-bit) version V20H2 or later	
RAM	8 GB of RAM	 16 GB of RAM for HD media 32 GB for 4K media or higher 	
GPU	2GB	6GB	
Hard disk space	Minimum of 500MB of available hard-disk space for installation	Minimum of 500MB of available hard-disk space for installation	

If you have a NVIDIA graphics card, make sure that your graphics driver has been updated after January 2023 because different versions can affect media rendering.

The driver download link https://www.nvidia.com/Download/index.aspx

macOS

	Minimum specifications	Recommended specifications
Processor	Intel® 6thGen or newer	Intel® 6thGen or newer CPU
Operating macOS v11.0 or later system		macOS v11.0 or later
RAM	8GB	 16 GB of RAM for HD media 32 GB for 4K media or higher
GPU	2GB	4GB
Hard disk space	Minimum of 500MB of available hard-disk space for installation	Minimum of 500MB of available hard-disk space for installation

Intel ® 6thGen processor reference

<u>i5:https://ark.intel.com/content/www/us/en/ark/products/series/88392/6thgeneration-intel-core-i7-processors.html</u>

i7:https://ark.intel.com/content/www/us/en/ark/products/series/88393/6thgeneration-intel-core-i5-processors.html

Intel ® 7thGen processor reference

i5:https://ark.intel.com/content/www/us/en/ark/products/series/95543/7thgeneration-intel-core-i5-processors.html

i7: https://ark.intel.com/content/www/us/en/ark/products/series/95544/7thgeneration-intel-core-i7-processors.html

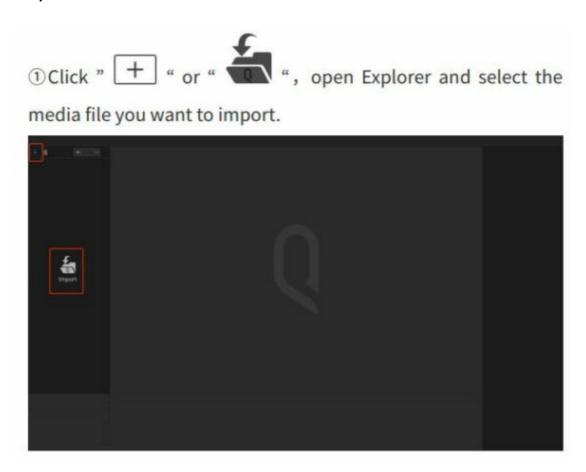
Hardware acceleration system requirements

Feature	Operating system	
Hardware-	macOS 11.0(or later).	
accelerated H.264	 Windows 10 (64-bit) version V20H2 or later. 	
encoding	Windows 10 with a supported NVIDIA or AMD card	
	HEVC 8-bit 4:2:0 encoding support:	
	macOS 11.0 (or later)	
	Windows 10 (64-bit) version V20H2 or later.	
Hardware-	Windows 10 with a supported NVIDIA or AMD card	
accelerated	HEVC 10-bit 4:2:0 encoding support:	
HEVC	 Windows 10 (64-bit) version V20H2 or later. 	
encoding	 Windows 10 with supported NVIDIA graphics card installed. 	
	 Windows 10 with supported AMD graphics card installed. 	
	Apple Mac Intel and M1 systems. On M1 systems, HEVC	

	HLG 4:2:0, 10-bit encoding is still software-encoded.
Hardware-	macOS 11.0(or later)
H.264 decoding	Windows 10 (64-bit) version V20H2 or later.
Hardware- accelerated	macOS 11.0(or later).
HEVC decoding	Windows 10 (64-bit) version V20H2 or later.

1 Import

1.1 How to import media



② Drag import. Select your media, and drag it into the import bar.



1.2 Support media format

① Video format mp4 H.264 mov H.265

② Image formatJPEGPNGTIFFDNG

2 Edit your media

2.1 Play media in QooCam Studio

Press the space bar or click the Play button in the viewer. Stop play While playing, press the space bar to press the pause button in the inspector.

2.2 Stitching parameters

2.2.1 Stabilization

OFF: Stabilization off. Suitable for video taken in a fixed position. Horizon Steady: It will eliminate the wobble of the video and follow the direction of rotation of the camera.

View Lock Steady: Eliminate lens rotation direction and video shake.

2.2.2 Process

- ① Defringe: It can eliminate the purple fringing caused by high contrast to a certain extent.
- ② Color Correction Due to the characteristics of panoramic cameras, the image of each lens will be slightly different in color, and there will be obvious chromatic aberration at the stitching seam. The color correction algorithm can largely eliminate this chromatic aberration, so that the entire picture remains natural. The color can

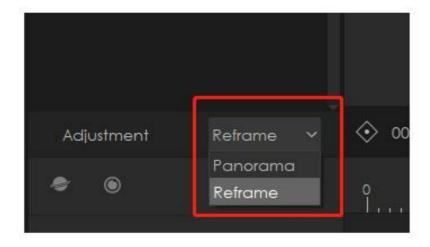
be smoother.

③ Optical flow: using pixel-level dense optical flow to accurately calculate the pixel correspondence between different lenses, enabling seamless and precise stitching.

2.2.3 FPS

- 1 23.976
- **2** 24
- 3 25
- **4** 29.97
- **⑤** 30
- 6 48
- **7** 50
- 8 59.94
- 9 60
- 120 (Original)

2.2.4 Panorama and Reframe



2.2.4.1 Reframe

① Angle parameters:

In Reframe mode, there are the following:

Yaw: range -180 to 180, accurate to one decimal places. Pitch: range -180 to 180, accurate to one decimal places. Roll: range -180 to 180, accurate to one decimal places.

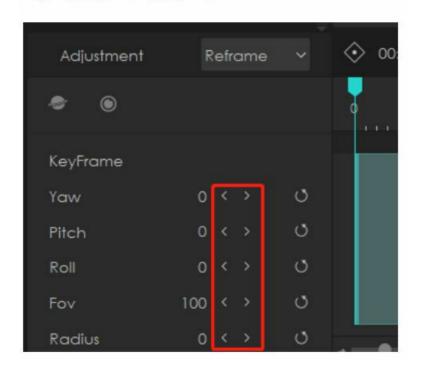
FOV: range 0 to 179, accurate to the ones. Radius: range 0 to 100, accurate to the ones. Distortion: Range 0 to 100, accurate to the ones.

Method to adjust the viewing angle parameters:

A. Drag and drop preview screen



B、Click"<"and" > "



C Click the parameter value, enter the value you need.



② Keyframe

In the editing mode, the key frame function is provided. Represents the control of the value of the video viewing angle parameter at a specific point in the video. When two keyframes with different values are set in QooCamStudio, the change from one value to another will be calculated, thereby dynamically changing to the second parameter.



Step 2: After click" or, a keyframe will appear in the timeline, and the time of the set keyframe will appear in the Adjustment window.



2.2.4.2 Panorama

In panoramic mode, there are the following viewing angle parameters,

Yaw: range -180 to 180, accurate to two decimal places Pitch: range -180 to 180, accurate to two decimal places Roll: range -180 to 180, accurate to two decimal places.

2.2.5 Grid

The grid function can help you accurately adjust the horizontal line of the image and position the image accurately.

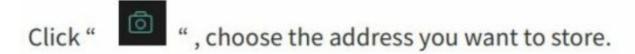


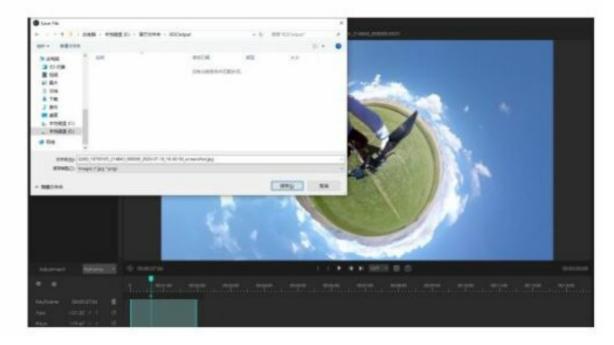
Click ", the grid can be turned on.



2.2.6 Export current frame

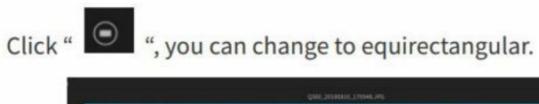
As the name implies, that is to export the current frame.





2.2.7 Panorama mode——Columnar projection

In the panorama mode, the viewer bar provides the function of columnar projection preview.





3 Render

3.1 Render Resolution

3.1.1 Panorama

3.1.2 Feframe

7680x3840 5760x2880 3840x1920 2880x1440 1920x960 Custom 7680x3840 5760x2880 3840x1920 2880x1440 1920x960 Custom ② The ratio is 9:16. 2430x4320 2160x3840 1620x2880 1216x2160

1080x1920

Custom

3 The ratio is 4:3.
4320x3240
3840x2880
2880x2160
2160x1620
1920x1440
Custom

4The ratio is 1:1.

4320x4320

3840x3840

2880x2880

2160x2160

1920x1920

Custom

① The ratio is 2.35:1.

4320x1838

3840x1634

2880x1226

2160x920

1920x818

Custom

mp4(H.264) mp4(H.265) mov(ProRes) jpg png DNG

3.3 Preset (ProRes)

When the export format is MOV (ProRes), there are four presets:

422 HQ

422

422 LT

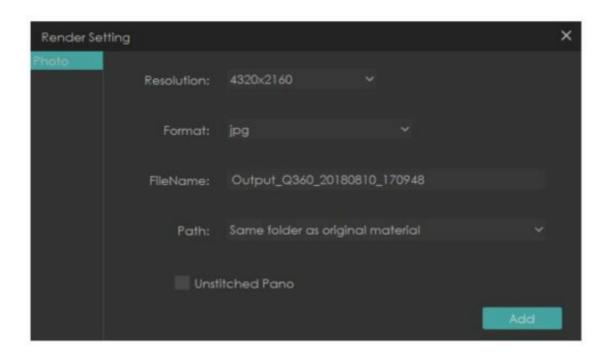
422 Proxy

See the ProRes white paper https://support.apple.com/zhcn/HT202410

3.4 Export path

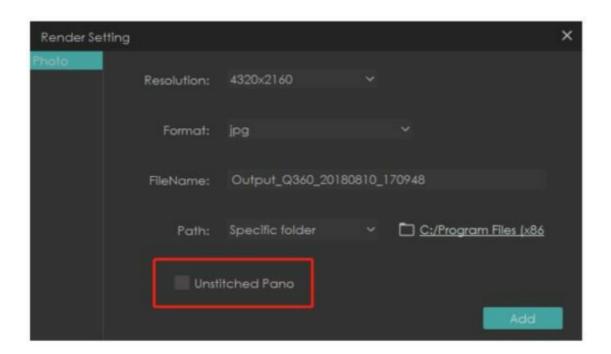
In this step, you can select the export path of the file.

- ① Same folder as source material: the same address as the material you imported.
- ② Specify folder: select the address of the non-source material folder.



3.5 Unstitched Pano

When you want to render a image, QooCam Studio supports simultaneous rendering of two single fisheye unfolded plan views. This function allows you to adjust the stitching more naturally in other retouching software.



Tutorial:

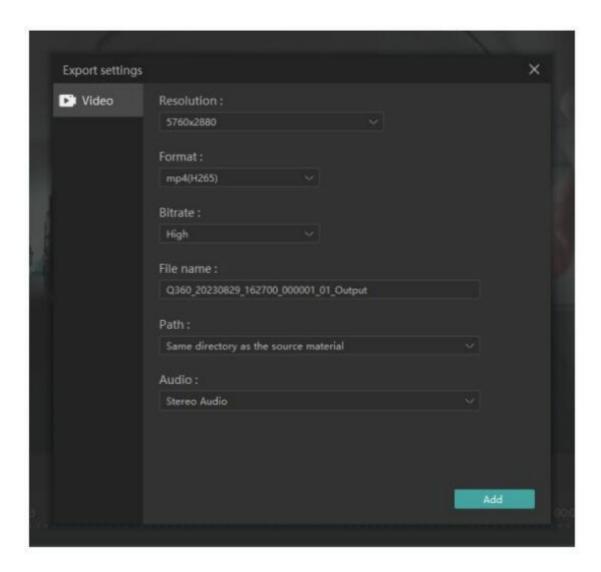
https://prd.kandaovr.com/2019/04/26/8-tips-to-choose-thebest-360-camera/

Video Tutorial:

https://youtu.be/D-sW-HQZqKA

When using the QooCam 3 to capture panoramic videos, you can choose to export panoramic audio during the export process.

Whether it's spatial audio for the 360° image in VR headsets or stereo audio for flat images with re-framing, it enhances the immersive audio-visual experience for users.



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References

User Manual

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